AMATION

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FEBRUARY 2, 1925

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VOLUME

SPECIAL FEATURES

NUMBER

MIRACULOUS ADVENTURE OF AN AIR MAIL PILOT
CAN THE FLETTNER ROTOR BE APPLIED TO AIRCRAFT;
AIR SERVICE WANTS BIDS ON HEAVY BOMBARDMENT PLANES
CASPAR LIGHT PLANE AND SAVOIA TORPEDO PLANE DESCRIBED

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Air Transportation COUNTY tense to take According to solved wheat or the heat way

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Speaking of Old Flying Days

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Air Service Asks Bids for Heavy Bombers To Be Packard Expined Four-States of Metal Construction

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Is the Magnus Effect Applicable to Aircraft?

Accessed, New York Consulty

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modern aerodynamies is tied up with the Magnas effect. The theory of aerodynamie illy, as first possistent by Landschedtial and the Garman, who have however to receptual such tills thought when they now then the control on the conceptual transferry flow.

February 2, 1996 Friday 2, 1805 us here, recrucing the induced drag from refujie length, is sto bearings at very high speed. For a high speed superaft the peripheral vehicle of the small extender would have be $c_{\infty} = \frac{6.3}{7.6} + \frac{(6.3)^2}{4020} - \frac{(6.3)^2}{7(6)}$ on the upper surface of the wing, and pressure below it. The lift of a retaining episader may be greater than the lift be engreen, and the world cortainly introduce serious re-channel difficulties. On the other hand, if the religious we-The total drug coefficient becomes 226 and the L/D becomes made long enough to ribus an efficiency aroundshing that The setup in the wind travel was a very small one. The - 2.76. The drug horsepower for the metricing criticof an orderic cylinder, the advantage of table breeles and It can be seen that warm on appropriate out defical $_{\rm de}$ becomes therefore $\frac{2000 \, \wedge \, m}{270 \, \times \, 200} = 145$, and the total borns the both naredynamical and necknotrol New French Aircraft the fact or that whenever it is attracted to corre a conto for a green open of wing or oplinder the reduced drag report recently med before the Prevals Chamber of complete let of the experiorated assemble new hours under to comber. The induced ding gives by the formula is madconsispence in Present to defeate orders of the Air Depart-Devestrae... Two bombers and one tonsepart plane. The to considering an energy equation. When the left for a given bombers passed the state tests. 6. The deep of a blust body as revisioners fore may Harrier-One two-engage material and target hardway and two trans-High places, the letter with large way are wal no rocket as -- repelly then the appeard impales separted to the wang The Most Important Rembts wary to the rare of a penchang cylinder. Cognoon account The agest appropriat specific results obtained were as follow-For the exceler critedes, with my m of 3600, wh a speciterpede please. The mediateter been passed the state being is revolving cylenders, therefore, the effect of supert ratio all be very important. To reach surfains like good L/D Takepier - Our military "natorodificultus," our follows note or 0,000 in Engineers and was obtained. This is surrounn consumed with the man, by on 0.002 of a continue Charleter do Sent-Nazare (Peaker) - Our multimotored 1800 by, seeping commercial flying best. This first to co. Bourwelet & Dr Monge-Two three regions 1000 kp. trans loof officers and one subbary please Louis Bulgare-One mentengued Levistins treesport plane, one type 197 mail plane, two type 24 tingle makes On the haus of percent newdynesses date, therefore, the Lethers—One type Hill high on flying best. S.E.C.M.—Two reagle engined leasters. Excesse—One 180 by fiving best, for hell train On the other hand, the convenient of a heavily helper to easilies than The values of lift coefficients obtained wer Salmon-Two two-center fighters with 500 hp Salmon The N.A.C.A. Exerciments the man of the parties provided place, with some common Miller Advantage Two and invalor manufactures and our The difficult eyelders is therefore in one whether mounts Villers— One marrie resolut place with 450 bp. Hupane A sample calculation will serve to first its after. Suppose Septembert-Astro-Open marries combet plane, type 63, with in cytigate in received to require to receive a mannar weign Stelling Would be Impossible CAMS,-Two marks gan spetting receipers, our with In the avestual mobediment of a poter survey's some next If the right of the returner in taken at 5000, the descrip-of the righter must be 100 ft. The coefficient of life to South de Télémérasique Con púntires (radio controled) to the prestant encomment or a rotter adversa some over a negligery device would have to be reveal to down the uperrifess civing cylinder—either an auxiliary electric moior, or a Process Three believedone the criticaler scatt be 10 ft. The power required to retain the The 1925 Gordon Bennett Cup δ — the propertyd sizes of the sylmeter — length × columber will be of the order of 2 km or thereshouse. to nav correlate of stalling such a markets or of because a truthy which will be competed on the lines of the Cordon of own negles of invidence to the threet line and changes in from speed ready ready be obtained by changing the years. the original cap into competition under new regulations of Then in its the "Consesse" absolute system of major. In Euthe optimizer.

Mechanical deficulture would however arms in substituting Then you'd race will start from Sofborb, many Francis, on guarr's made, the equations would be 40.480- 40.480The Caspar C17 Two-Seater Light Plane New German Low Powered Airplane Allows for Soaring Effect with a very to helping in this direction, that employed being Construction! Details

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Allowing for Socrine Effect

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Power Plant and Performance

The arrespond of the Severa 555 security of these markage. be ded weight (with a merial lead of 300 fb.) in 735 fb., which is correspondingly good and commance friendly with the her, coverding to the nurspeed sudmains, the opens on non-portal flight was between 68 to 75 ml /hr, with the angine restring at 3,200 to 2,300 rp.m. During climb at 3,000 to 2100 rp.m. the stripped policialty shired 42 to 55 m of the conas alleleds of 555 ft. was reached to about 2 was, and the 'to electing for the fact test their. Here Mover states than An electing for the most test flight, liber Meyer sense man the mechanic pet off in 67 pd, against a would of 6 to 5 m, less, and its a second ellement than divinous man reduced to 40 tol. the ray sequent was then less than 200 ft. On another a sum, and piloted by auother paint, the CIT, agent energy. o same, and process of auditor pain, the Co., agent comp-ics parameter, resolved an allitude of 4,750 R., had readly be come to higher on assumed of electric. The estimated selling > 11,500 R. The landing speed in 21 to 34% mo/kir 11,500 ft the innting speed is 23 to only might Assuming a response power of 30 hlsp, the power londing . the Curper C17 is 27 85 th /5 kp , while the wine looking in

p stated that the angine has a power natput of 30 kp at any reason, and during test flatter of was found that the

and open, one carried test fights of was rown, one and sections would be explant losing hought with the engine mounted down to 2,000 s p.m., corresponding to approximate

The Savois Torpedo Flying Boat The Società Edwardants Alta Italia, more community incomhold. It believes a parrier step for field her arm manner for water was, a firing boat for home distance assetting and a

Wing Structure The 885, or the torpodo place in descripted, in a thick wine

is chosed. The persons which propert from orther sule are both 110. This resulted section up to 9 ft 9 m. The wings are set at a remoderable disolval The theckness of the wings at the central meting in . O. let at the up it decreases to 8 as. The advoca are

Toll Surfaces has a span of 20 ft it is and in balanced. There are three

The newtones or, more exactly, the double best hall as built up so as to connect up accidly with the nine absentage. The up to an to connect up manay wan to area, giving plenty of warm.

between for the recenting and legaching of the torquée.

Oxfine drawings of the Severe terpods fixing beat The Savon terpedo plane, however, differs extends from the Passes Plant

where it is bridge. They are carried on a M dansed branches above the ware, and are not us a recombined conduct. Contract SECUPICATIONS OF THE SAVOIA 515 SEAPLAND

Manhous shoot Minimum shoot from of shoulder Walter Hinton in the Junele

A radio received son in stated that Bliston and opening reterred to their obvious base after harper reperred the half

Harney combed rate a mountain over 5000 ft, is the sor, on Halt Loke. There was a heavy for with so one vanitrelated by hunself to his experier officers and made public

"I left light Lake field at 12.42 was on Day, 28 as then 270 with read for wastern negative Paint Scott reports encountered mow and most, and vertility was were room as On rack only of the Earlife the shitted of mage is about "No part of the mosetum range was vashis. I had preeveded through the bole, my alterator regotering (200 ft to excelled up the place of the Switch short 5 700 ft.

pall symil from moles, a convenient order into being handy.
"The cities was consisted waited set. My left shoulder

"I started down the mountain side to what I thought to he a covered direction of the most through the Stabilla. To was deep and the mountain steep, which made wall her difficult. I should on some thate ruch striking my bershouldes and bureled at back onto place. I reblied my for-I maked down to the road. The verbelly was believed in about 1 verbed to the restored tracks and flaured . common train. I then sent a won from Wells, Nevada, th-On the secromy after the donder to pilot Seelt becau-

there to wathing. It one place a tree name nucleus mob-thack had stood only to be kruken off as a tootheest make a the errord. The thirt finally moved up by terrene address. of the skip and mushed beyond repair. The motor had against more and followed the favorage in the path stoppen, with its rear end just under the cockpit edge very close to where Scott's hand naturally would be. It also was smarked was out of place and my left are freeing regulty. I noticed beyond repair. In fact, it is a wender that Scott is allow in another I had reprected not matches, but that I had left my gas, but as about it." British Experiment with Rotors

Why the Shanandosh Broke Loose agés le asplants. The experiments are still in the initiawhen reader or the moorting apparers with which the most of the slep had been fastered to the mag. This spiralle had been alog had been squared to the man. This shower one com-Ascer the conclusion reached are that the trademal of Balloon Section Reunion

and William E. Woodman, sometany, has been farmed to as range for the holding of a direct and remains of the Balton-Section of the Army, to be held us Your York City or Saturday, March 22 Thes will be a gathering of those who those new associated with the lighter than air units of the All who are interested are urged to computationly as seen a noselide with Withers E. Woodway, Been 965, 5 Nasser Directy 2, 1825 Aircraft Observations of Eclipse

and visible that day in certain parts of the United States. p. represent asked for the normanner of the theoremses. in the present of several mass store the earth. This was in the granted, whenever possible.

Dot William N. Hender, communicar affers of Wildel. Note L. I. and tenny-five places, smally Diffell's, slott a ded to 16,000 ft. and reported that the flame from the the Days most felence of the root and he shower The one dead.

Each of the rejets reported on returnor to earth that has cost of solelly to 20 below. It was not a gradual drop as Others of the fiver combine bruncht back excellent choport, L. L. by Liest. C. E. Cremerine of Bolling Fuld, and bent College, who was to general change of operations at Model Field dendared great clatter after he had consulted "I connect new way how report. But it is selfs to can that the correlfered work of the Arrey sir was to collaboration with Comme Field, Garden City, L. L., cost up fire planes. One of these, plates by M. M. Merrell, and carrying a reporter and a platestranslate of the New York First classed to 0.000 O. to seri a good year of the corons All the pilets reported at so dark at the exact moment of

HADEY that if was preparable for those to read their contra-

contr. It was unquestionably decker in the air thus on the cook pave off a red-fire blac hand which marked the exact

The officers of the Los Augules included Lines, R. F. Tuber.

13 Elson, USE, and entrying a party of Navy astrono-ners and photographen, made a 12% br. Eight from her bare of Lakekanet, N. J., to realds her passengers to make the Lines. T. Polkets, Superintendent of the E. S. Navel Oberratory, Prof. Garrier H. Peters, andreasurery Dr. C. Sero, of the Turous of Standards; Copt. St R. Lindl, of the for the Accept and Watson Davis, of Science Service. Land 7. L. Bishardam, U.S.K.F., chief photographer of the regulation, worked with A. K. Printers, that chainsemples

abourd and the they was welled out by 300 marines and tions. When the skap was out a blast of 25 mg/kr flung bey sale body at the supe seds. Commander Elece, acting questy, had the prepared staged at once and the sign rathed out ever the sea and made for his position in the path of the moon's skadow, about 29 ms off the east and of Lenn Island The armire followed much the same course in neutrons Scientists who made the flight and the results obtained

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Another Long French Flight Africa. Copt. Pointer Dony, here of the Para-Stanson one ship, and Colonel Vadlence and Caption Degrees of one ship, one treasure yearsure and the mechanic and the resolution for heart to Party in which care the learnth of the the machines By beak to Pana, in 90sch one the length of the journey would be anymogeneity 9000 ms. The mate mayod dight and had to had at Arond, 100 or much of Paris. Or the 25th, both reached Colomb-Hickey

World Flight Gets Collier Trooby The Collier Trophy Committee meeting at N.A.A. hond: coarters on Jon. 31, reversed the stains estembled for the

The Constitute full that the finish was like mentant where classes industried and in addition decreased other 1804 returns.

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AIRPORTS AND AIRWAYS

Bellefeste or Typpe, Pa. ? Bellefonte, Pa., the well known undersy stepping place to

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"Whenever there is Air..."

Credit where Credit is Duc

Philadelphia News

On A statement to that effect was made by efficials of the Acrecently never by the Otternment nation a landing field and May J. Selany Owner, encounanter of the opendron, who re Manner until a first or provided. On the clab's commutee which has charge of the matter of resembler and von percelost of the Finlandspin Chamber of Commonos, which is also interested in the groupet, Wallan-Koljett, possiber, of the clab, Harold F. Fitcarri and C. T.

Ludiopire, Priladelphia fiere, who have their own fields and terroid ninner, and B C Dallin Flying in Olean, N. Y.

Japanese Flight Storts May 1

The ampliane fight from Telon to Europe which as being Two Japanese Frement hiphanes, fitted with 400 by

Reviner Helicopter to Go to England According to 5 light, the Sections belongster as to be slapped Harris, A.S., of NeCook Padd. The Seriore belouply; made averal successful fields by UNITED STATES AIR FORCES

II & ARMY AIR SERVICE.

made a peoplet handow on what perced to be an alfalfa conciere I waged for deplied.
"When it was light enough to see I described that I had next year from for the place to opening through I doubt term much if I could have done it is broad farilitie.

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First, First Lore, Frederick A. Jelesson, Beroky First Liest, Harry G. Montgomery, A.S., Philips Field, to the rembalant hundres (Indicate), Compre. Faid Artiflery Next Artiflery for Jertier, Curps of Environes and Stones Corpo) after the appointment of the next producting then of the United States Mikipay Academy, but will not mainte conditate from the Philapsian Stocks. The arrown uniquely time Officer, Change Field Con Officer, Changes Purce.

Each of Difference May Hereld A. Recessa Fueld, from
the Statement May Hereld A. Recessa, McCook Fueld,
opt Edgar P. Surveyen, Cambrolon, Capt. Dudley B.

First Long. Ashv C Strickland, A.S., Kelly Field, to Man-First Livel, Wallow G. Smith, A.S., Cheesle Publ. to

Fort Land, Wallace E. Fleicher, J.S., McCock Publ. to. New York City, safety via Convenient transportation Auril. A Unique Night Firing Experience

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thereof may be obtained at any sufflary post or station. Ap-Crash Tests at Willser Wright Field

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REATH AIRPLANE COMPANY, Inc. Chinese

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VALLEY ASSUMPT COMPARY
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MOVMOUTS: 313.

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LIGHT PLANES Charles Sin THE SKYSYNE CORPORATION

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ESSINGTON SCHOOL OF AVIATION FLYING SOATS, SEAPLANES, AND SPARES CAN YOU FLY CAN THE PLAN OF THE PARTY OF TH

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